



VIDEO TUTORIAL

### Important!

This replacement procedure can be used for:

FIAT DOBLO Cargo (223\_) 1.3 D Multijet, FIAT DOBLO MPV (119\_, 223\_) 1.3 JTD

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The steps may slightly vary depending on the car design.

## REQUIRED TOOLS:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 13
- Drive socket # 19
- HEX bit No.H6.
- Combination spanner #19
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Pin punch
- Tap wrench
- Rubber mallet
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

## AUTODOC recommends:

- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- All work should be done with the engine stopped.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the bonnet.

2



Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3



Clean the fasteners of the shock strut upper mount. Use WD-40 spray.



4



Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.

5



Secure the wheels with chocks.

6



Loosen the wheel mounting bolts. Use wheel impact socket #17.

7



Raise the front of the car and secure on supports.

8

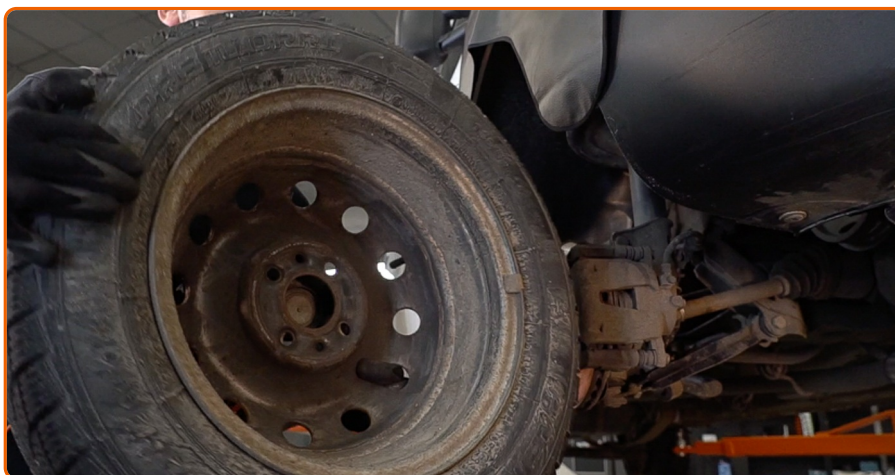


Unscrew the wheel bolts.

### AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

9



Remove the wheel.



10

Remove the brake hose.

11



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

12



Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a tap wrench.

13



Prop up the steering knuckle. Use a hydraulic transmission jack.

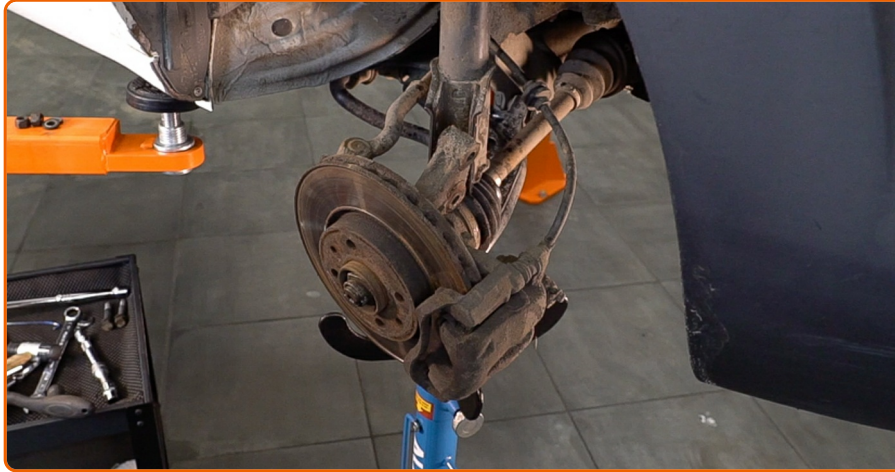
14



Remove the fastening bolts.



15



Disconnect the steering knuckle from the shock absorber strut. Use a pin punch. Use a rubber mallet.

16

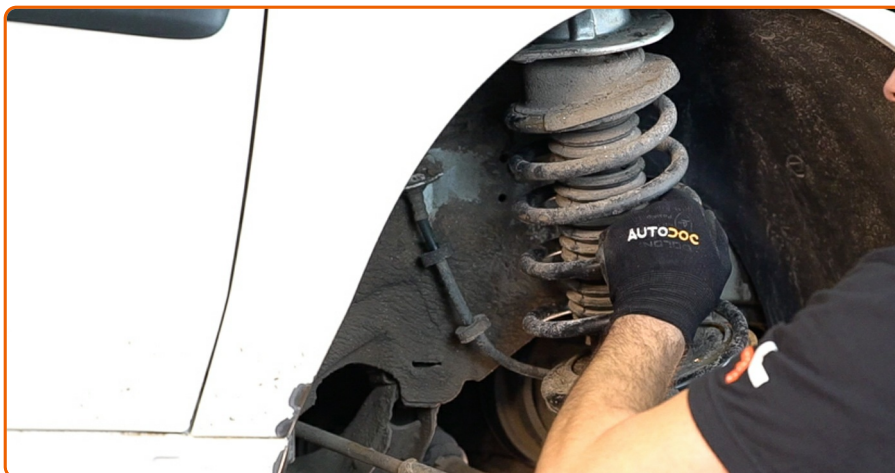


Unscrew the top fastening of the shock strut mount.

### AUTODOC recommends:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

17



Remove the suspension strut.

18

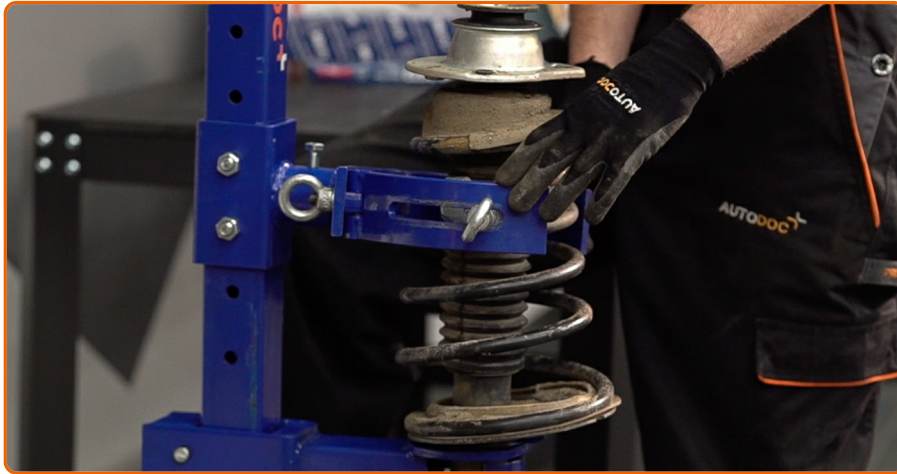


Set the shock absorber strut on the spring compressor tool.

## AUTODOC recommends:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

19



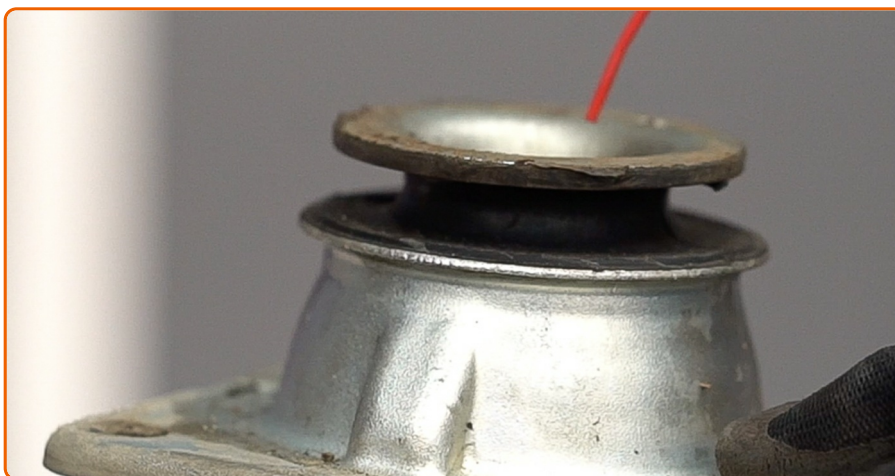
Compress the spring.

20



Remove the shock strut mount cap.

21



Clean the shock absorber rod. Use WD-40 spray.

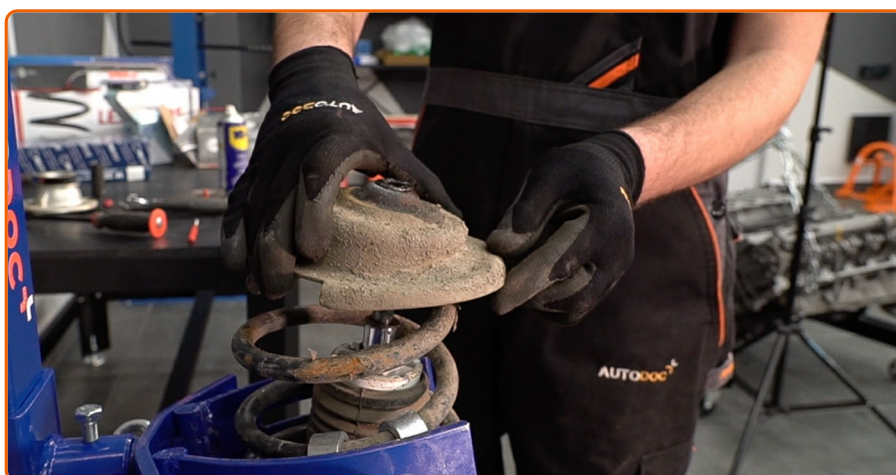


22



Remove the strut piston rod nut. Use a drive socket #19. Use HEX No.H6.

23



Remove the top strut mount.

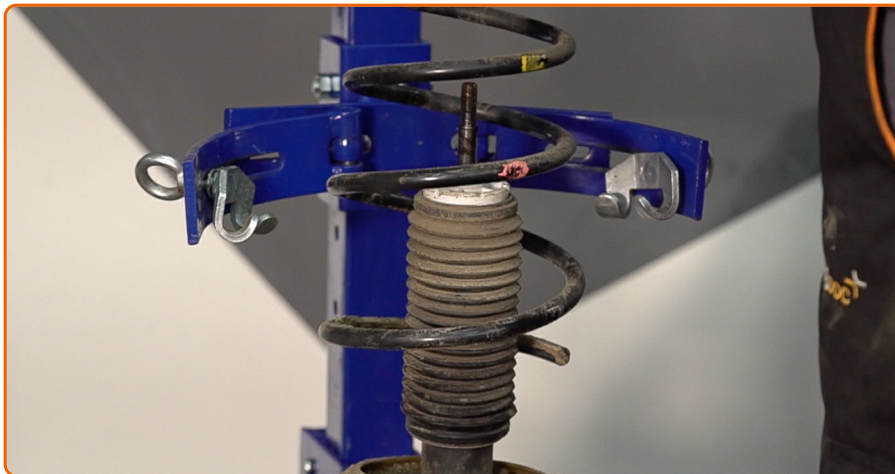


24



Release the coil spring.

25



Remove the spring.

## AUTODOC recommends:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

26



Install the spring on the shock absorber.

27



Compress the spring.

28



Install the upper strut mount and the strut mount bearing.

29



Tighten the shock strut piston rod nut. Use a drive socket #19. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.

### AUTODOC recommends:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

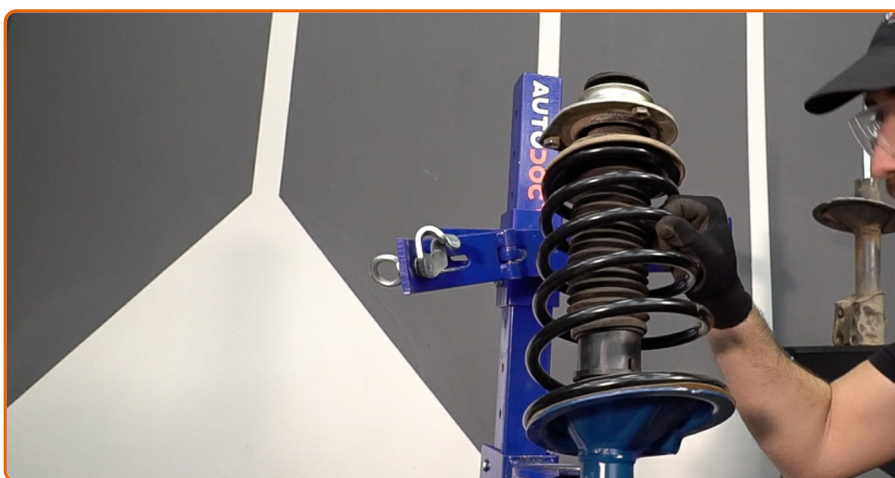


30



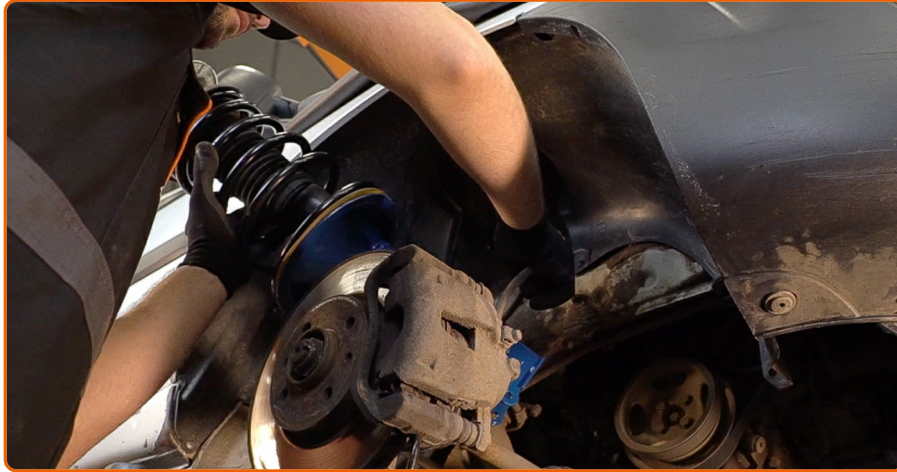
Decompress the spring.

31



Remove the assembled shock strut.

32



Install the shock strut into the wheel arch.

33



Screw the top fastening of the shock strut mount Do not tighten it.

### AUTODOC recommends:

- To avoid injuries, hold the shock strut when screwing the fastening bolts in.



34

Treat the shock strut mounting seat on the steering knuckle. Use a wire brush.

35



Treat the steering knuckle fasteners. Use WD-40 spray.

36



Fix the shock absorber strut on the steering knuckle. Use a crowbar.

37



Install the fastening bolts.

38



Remove the support from under the steering knuckle.

### AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

39



Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #19. Use a combination spanner #19. Use a torque wrench. Tighten it to 83 Nm torque.



40



Treat the brake hose fasteners. Use WD-40 spray.

41



Fasten the brake hose on the strut.

42



Treat the shock strut fasteners. Use copper grease.

43



Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



44



Install the wheel.

### AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

45



Screw in the wheel bolts. Use wheel impact socket #17.

46



Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 32 Nm torque.

47



Treat the fasteners of the shock strut mount. Use copper grease.

48



Install the shock strut mount cap.

49



Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.



50



Remove the fender protection cover.

51



Close the hood.

52



Remove the jacks and chocks.

**DID YOU FIND THESE INSTRUCTIONS  
HELPFUL?**

**YES**

**NO**



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